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PHOTOGRAPHIC INTELLIGENCE REPORT

MANAGER
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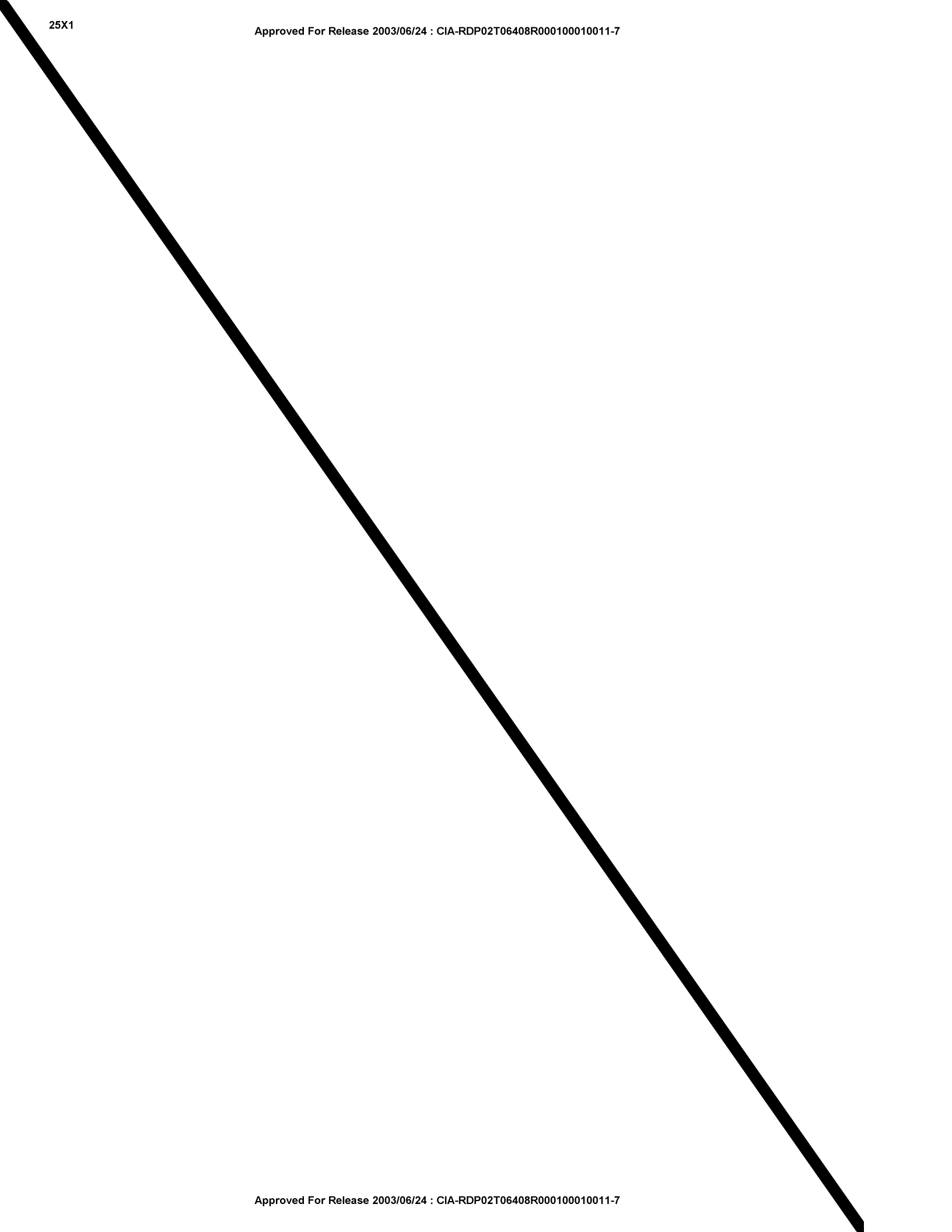
CHIA-TING RESEARCH FACILITIES
NEAR SHANGHAI, CHINA

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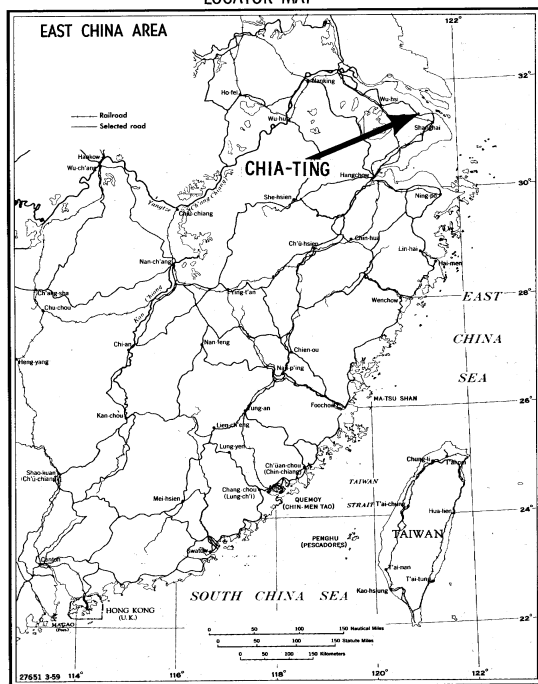
TITLE	SEC. CLASS.	LOCATION
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FIGURE I
LOCATOR MAP



CHIA-TING RESEARCH FACILITIES

INTRODUCTION

A previous CIA inter-office memorandum 1/ dated 5 February 1965 indicated that research and educational facilities were under construction in the vicinity of Chia-ting, China (31-23N 121-15E) (Figure 2). At that time the only facility that could be identified was the Chia-ting Nuclear Research Institute (31-24N 121-17E) (Figure 18). This report; however, concerns itself with a more detailed study of each facility and the surrounding area, and utilizes photographic missions not available at the time of the memorandum.

DISCUSSION

Five installations in the Chia-ting area have been identified by name; three have had their general functions identified while one could not be placed in any category. Also two areas of new unidentified construction have been described.

It was impossible to confirm the presence of any military personnel; however, there is a great deal of new housing in the area where troops could be billeted. If the military element is represented by a small number of people, then they may be housed with civilians of comparable rank.

Community centers can be identified throughout the area, and several athletic fields are evident. Most of the housing is of good quality, and much of it consists of multi-family apartment buildings. This would indicate that schools and hospitals are available here, but none could be definitely identified. No estimate of personnel in the area was attempted because the extreme diversity of housing types would make it a completely unreliable figure.

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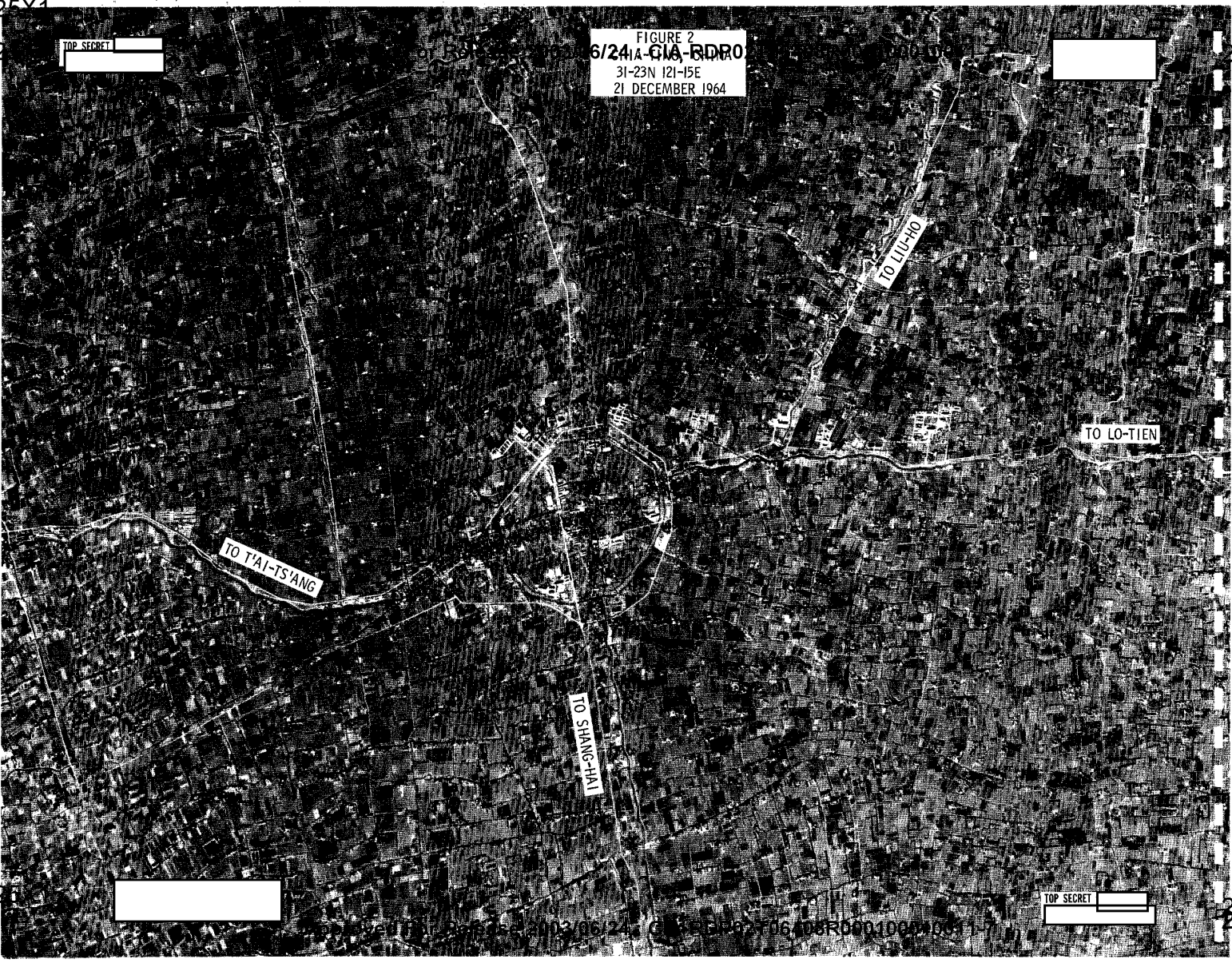
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FIGURE 2
6/24 CIA-RDP0
31-23N 121-15E
21 DECEMBER 1964

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According to collateral source the population of Chia-ting was evacuated, but the photography does not seem to support this information. The fields within the city moat appear to be cultivated as extensively as those in the surrounding area, very little of the traditional-type housing has been razed, and the boat traffic appears to be heavy, as previously seen. 9/

No airfields serve the immediate area, but the airfields at Shang-hai are so close that another one at Chia-ting is hardly within reason. The nearest railroad is the Shang-hai to Nanking line which is about five nautical miles to the south. There is no spur currently under construction from this railroad to Chia-ting. This means that the roads are the main transportation to Chia-ting. The main roads are two-lane, appear to be paved, and in good condition. Collateral sources 9/ indicate that bus service is used in the area, and several bus stations and many buses could be identified on photography. In addition to the road traffic the canals always appear busy, and much cargo is carried by small boats.

The powerlines referred to in this report are based primarily on the [redacted] satellite coverage since that time has not been of good enough quality to trace powerlines. The main lines that could be seen and the substations are shown on Figure 3. The 110 kv line can be traced from a substation in the industrial area near An-t'ing which is about 7 nautical miles to the southwest (substation coordinates are: 31-18N 121-11E). At least two lines can be traced from there to a substation in Shang-hai 12 nautical miles to the east (substation coordinates: 31-15N 121-25E). It was not determined which power plant in Shang-hai produced the electric power.

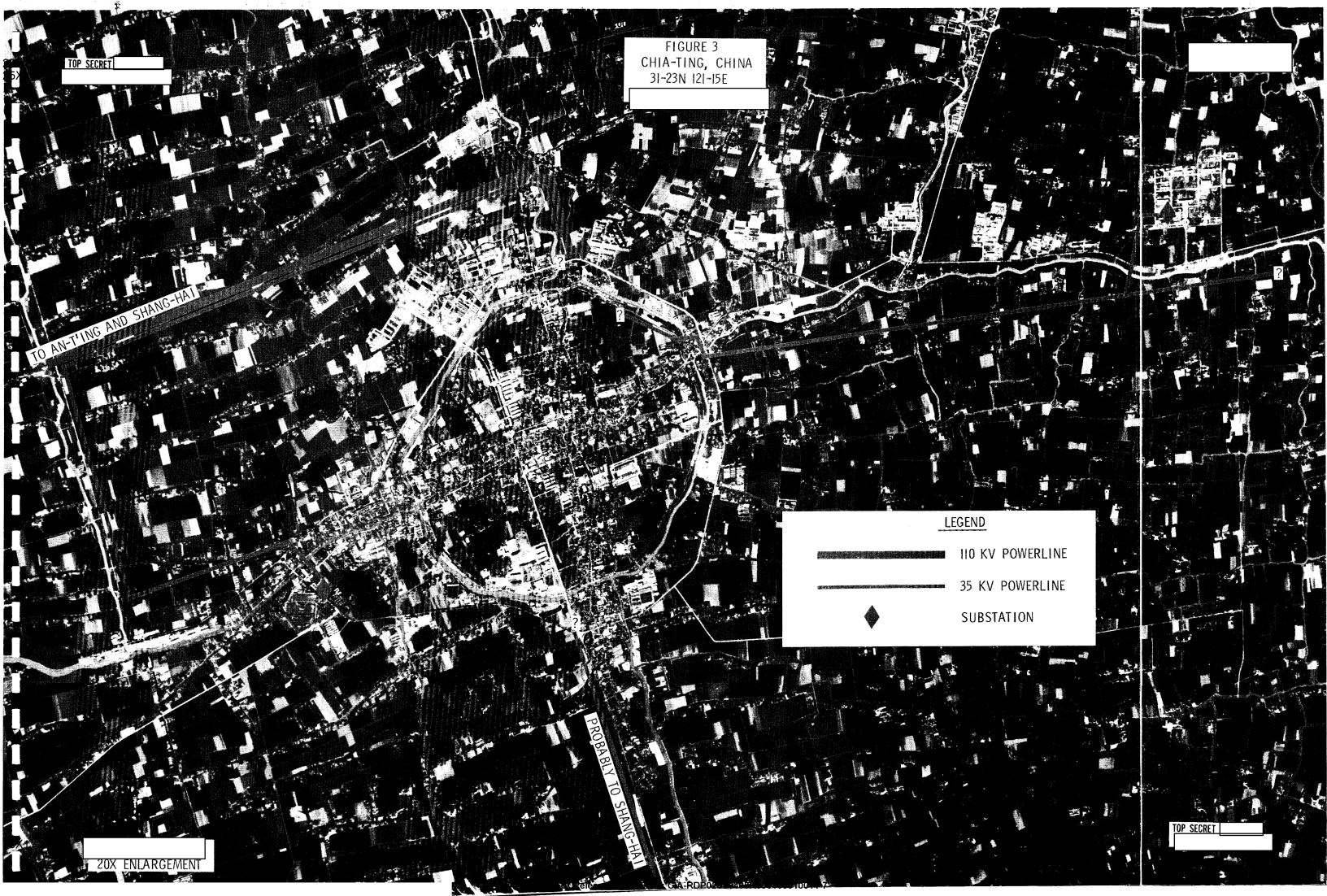
Telephone/telegraph poles could be seen throughout the Chia-ting area, but other communications facilities could not be identified.

A search of the immediate area was made for test sites of any kind, but none could be located.

It is apparent that construction of new facilities is continuing at Chia-ting as it has for more than five years. The pace of major construction was being slowed down by [redacted] and continued at a slow pace through [redacted]. Since that time, however, previously identified installations have been expanded, and two new ones begun. This may indicate that a new construction program has been adopted, and that the other installations mentioned in collateral reports will be re-located at Chia-ting in the near future.

NOTE: Each of the detailed descriptions of the installations that follow has a number in parentheses following the title. This number corresponds to the number annotated on Figure 4.

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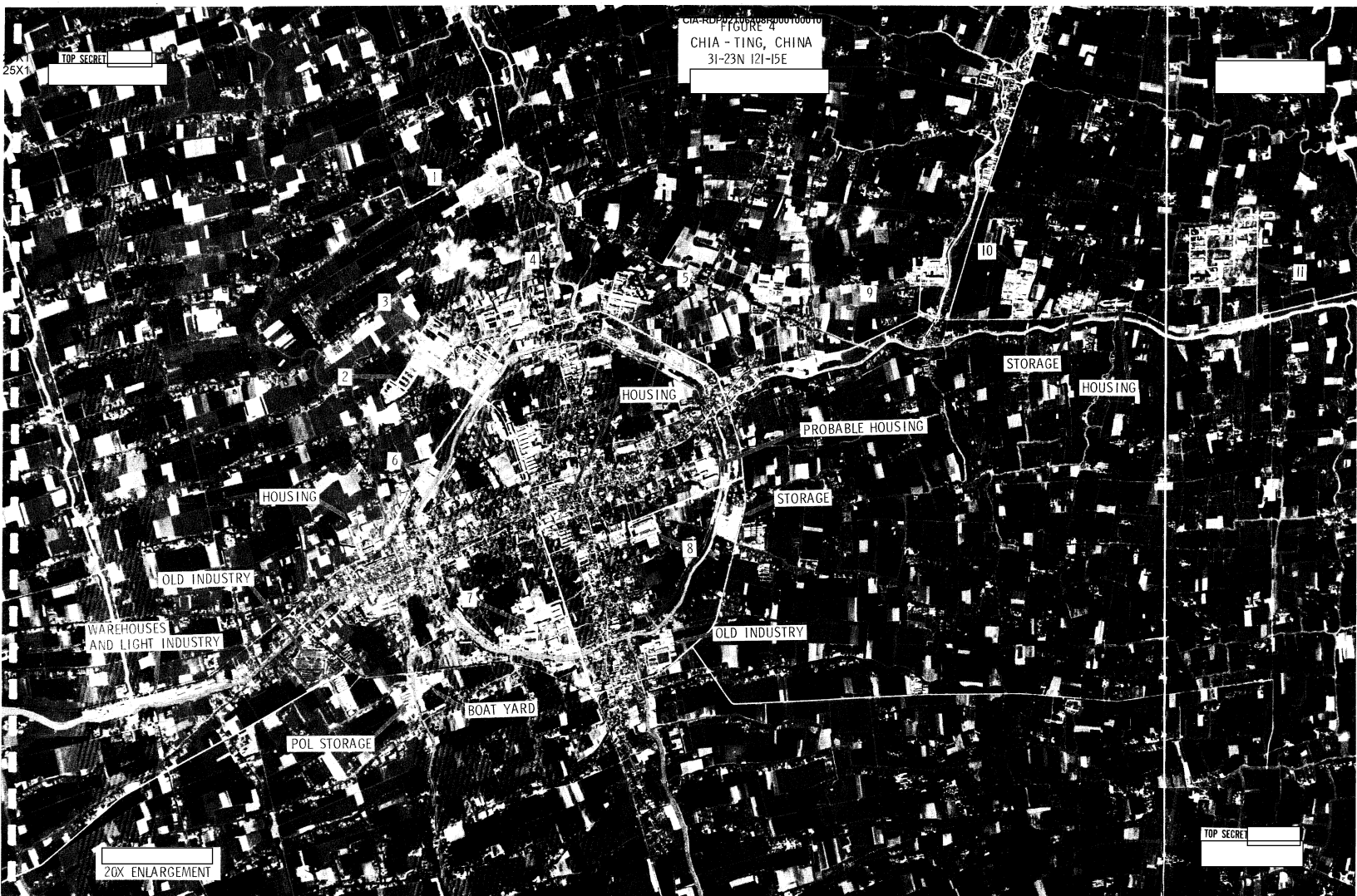


FIGURE 4
CHIA - TING, CHINA
31-23N 121-15E

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FIGURE 6
POSSIBLE HEAT TREATMENT LABORATORY (2)
CHIA-TING, CHINA



POSSIBLE HEAT TREATMENT LABORATORY (2)

This installation is possibly the Heat Treatment Laboratory of the Academy of Science's Shanghai Material Testing Institute. 5/ It is located on the northwest side of the town and the gate is about 1200 feet outside the ring road. This installation was first seen on [redacted] and was apparently completed before [redacted] Since that time it has undergone no apparent change. The installation consists of 11 major buildings four of which have free standing stacks associated with them. All of the stacks are associated with institutional-type buildings instead of industrial type. Two of these buildings are U-shaped, one is L-shaped, and the other is H-shaped. A second large L-shaped building within the installation is probably an administration building. The installation is surrounded by a completed wall, but no guard towers are evident. (Figure 6) the gate is closed, but no sentryhouse is seen.

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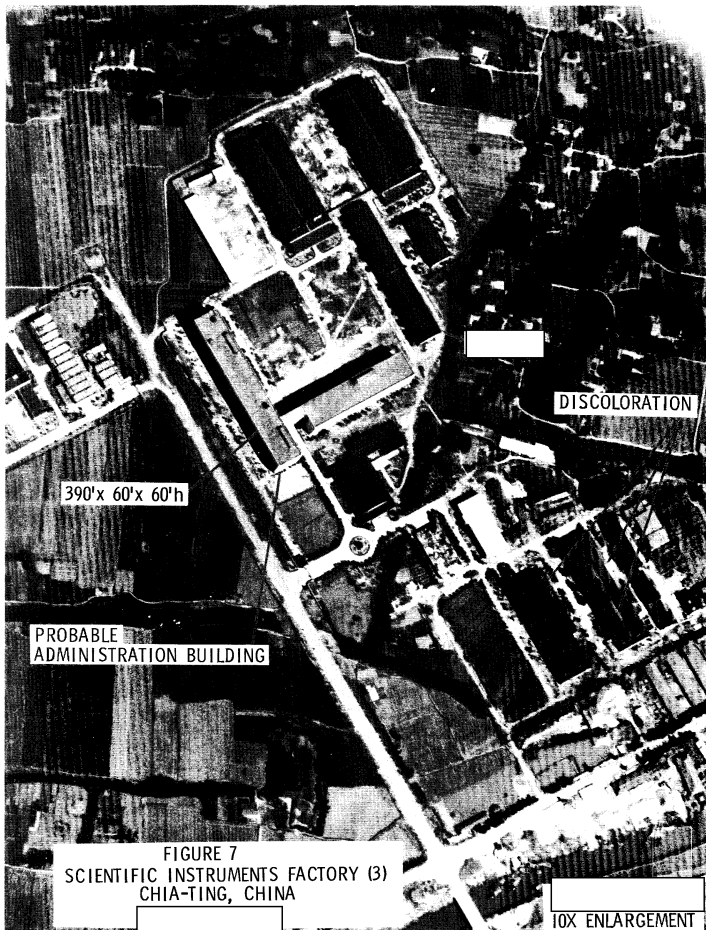
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CHIA-TING SCIENTIFIC INSTRUMENTS FACTORY (3)

This installation is located on the northwest side of town directly across the road from the Heat Treatment Laboratory. This installation is identified and partially described in [redacted] dated 21 July 1965. 3/ There are five large industrial-type buildings here and three of them are connected by a covered walkway. Their function is not apparent on photography. The other two buildings of this type are discolored on the roofs around some ventilators and monitors indicating that a powdery substance or paint is used in those areas. A small free-standing stack is associated with one of these two buildings, but no large stack is present in the entire installation. The probable administration building is L-shaped and quite large which may indicate that it serves another function such as research also. There are about 14 other buildings in the installation most of which are warehouses and shops. The administration and large industrial-type buildings had been constructed by [redacted] and most of the others were completed by [redacted]. Minor changes were apparent as late as [redacted] Figure 7) but no new major construction has been begun.

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The installation is probably fenced all around although it is not apparent along a short stretch of canal. There is vegetation on both sides of the canal which probably obscures the fence. On [redacted] the gates are all closed, and a large sentry building is evident at the main gate.

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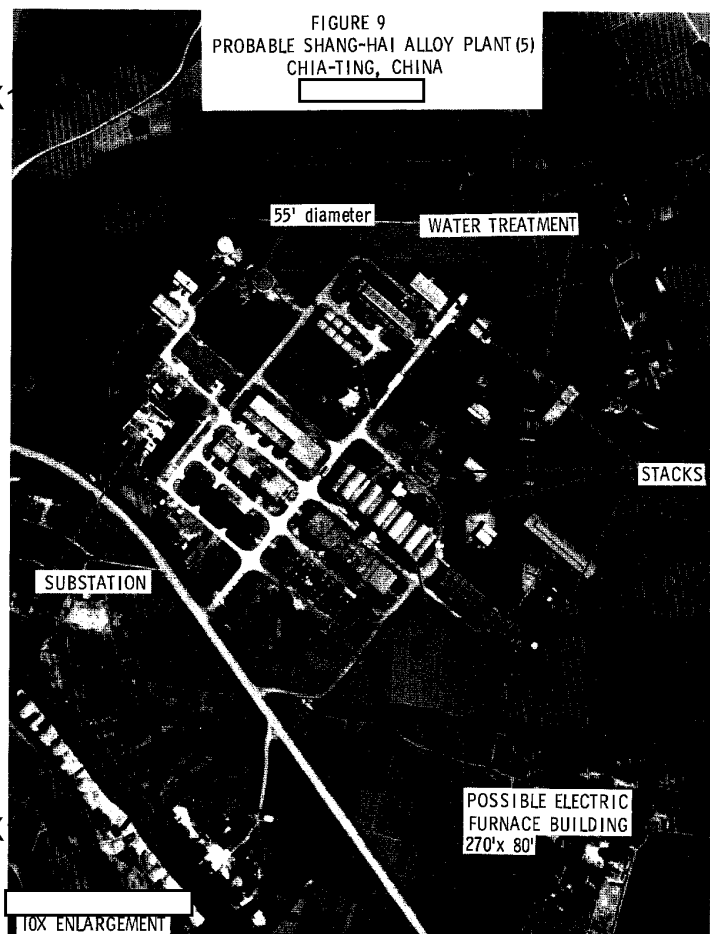
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FIGURE 9
PROBABLE SHANG-HAI ALLOY PLANT (5)
CHIA-TING, CHINA



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PROBABLE SHANGHAI ALLOY PLANT (5)

This installation is on the north side of Chia-ting and is just outside the ring road. It contains a large electric substation with two large transformers. There is no substation comparable to this associated with any other industry in the area. There is also a large possible electric furnace building with five high-bays and two exhaust stacks. In addition there are four other large processing buildings, two large warehouses and six other unidentified major industrial-type buildings. A water treatment plant, two gasometers and several small support type buildings are also present. The first construction was completed prior to [redacted] with most of the other construction being completed by [redacted]. Three newer buildings were completed by [redacted] (Figure 9). This installation is entirely surrounded by a wall with a sentry building by the main gate. The main gate was probably closed on [redacted].

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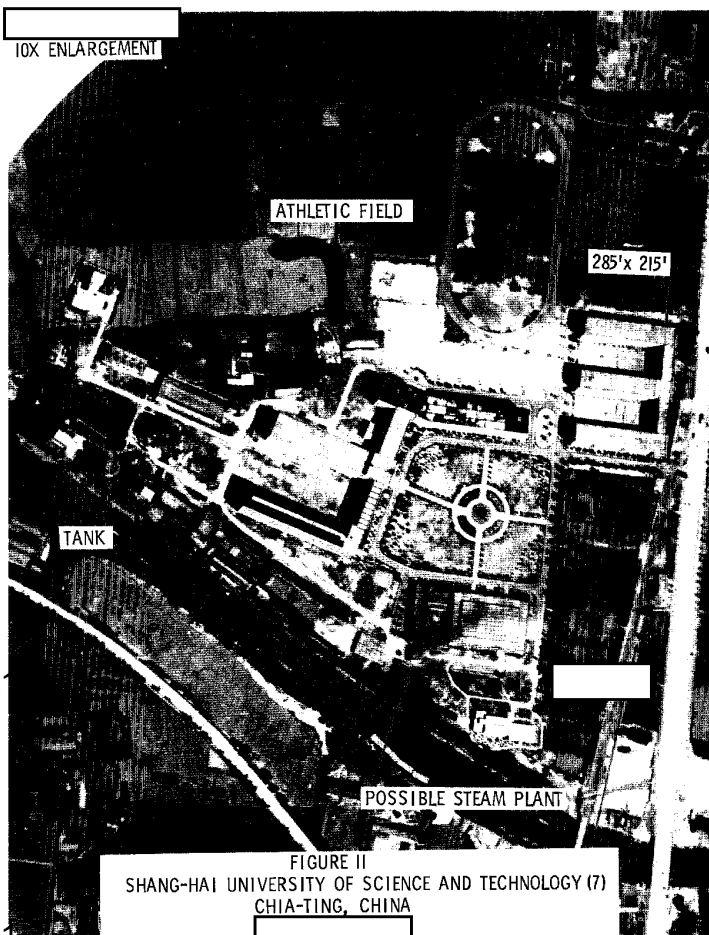
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10X ENLARGEMENT

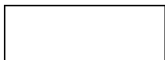


SHANGHAI UNIVERSITY OF
SCIENCE AND TECHNOLOGY (CHIA-TING) (7)

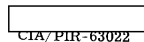
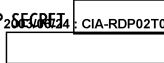
This installation is located in the southwest quadrant of the old city and is inside the moat. It contains five institutional-type buildings. Two of these are quite large, have complex shapes, and were constructed prior to 8 [redacted]. The other three were in the ground preparation stage on [redacted] and appear almost completed on [redacted]. Another large rectangular building that was completed prior to [redacted] may be an auditorium and messhall. There is a steam plant associated with it which was in operation on [redacted] (Figure 11). A water treatment plant, 11 smaller supporting buildings, and an athletic field make up the rest of the installation. Four of the supporting buildings were constructed between [redacted]. The installation does appear to be secured by a wall, and no guard towers or sentry buildings can be seen. The gate is open on [redacted].

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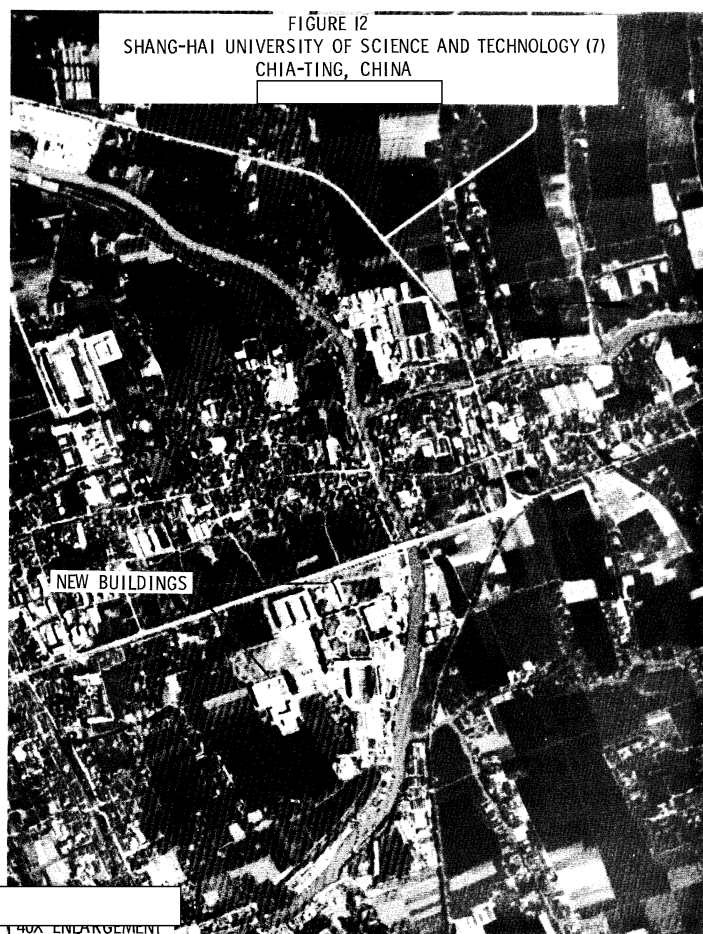


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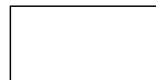
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10X ENLARGEMENT

STRUCTURE 445' LONG

U-SHAPED BUILDINGS

FIGURE 13
PROBABLE RESEARCH FACILITY (8)
CHIA-TING, CHINA

PROBABLE RESEARCH FACILITY (8)

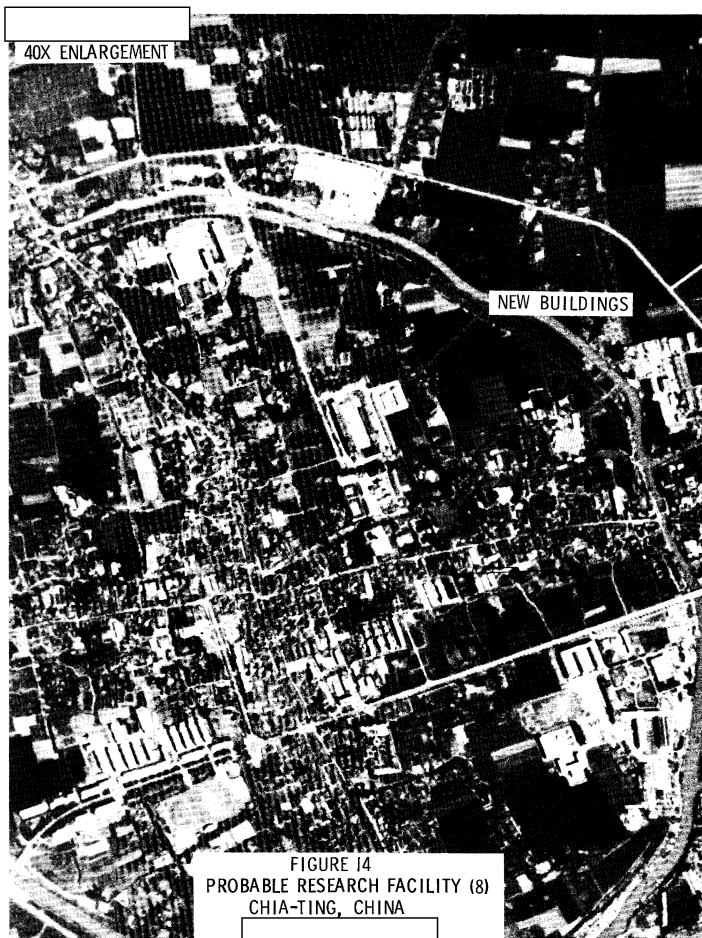
This installation is located in the southeast quadrant of the old city within the moat. A new road and bridge were built between [] to serve this installation which is about 1/3 nautical mile inside the ring road. Two institutional-type buildings were constructed here prior to [] three more had been added. These three were attached to the existing two so that they are arranged in a U-shape. Two short stacks extend from the roof of the lowest building and could be a small heating plant. Also constructed between [] was an unidentified long structure. This structure is 445 feet long. The 20 foot wide middle section is 395 feet long and on each end is a higher section that is [] These higher ends also have smaller sections extending farther out. The high ends are about 35 feet high while the middle section is about 25 feet high. Another U-shaped building was built here between [] It appears to be an administration or institutional-type building also. The installation appears to be secured by a wall on [] (Figure 13) and the gate appears to be open. The new building probably is secured also. No guard towers or sentry buildings are apparent.

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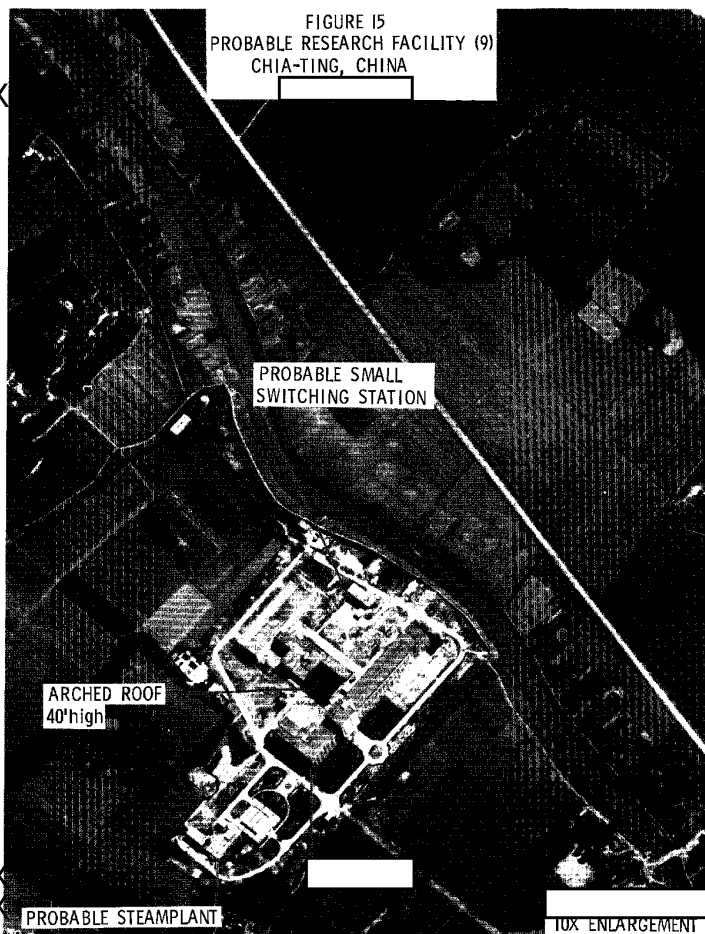
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PROBABLE RESEARCH FACILITY (9)

This installation was first seen on [redacted] when most of the buildings were in the late stages of construction. Prior to [redacted] (Figure 15) the internal roads and the security was added. Two new support buildings and a water standpipe were added between [redacted] and [redacted]. A water standpipe was evident on [redacted] but it had been removed by [redacted]. The installation now contains a steam plant, messhall, water treatment facilities, and a small probable electric switching yard. The main building is actually a series of three connected buildings. The largest section is an L-shaped institutional-type building that is connected to a multi-level section by a covered walkway. The multi-level section has at least three levels with several vents in the lower level. All the levels have a flat roof except one which is arched. The arched roof section has large windows in it much like a gymnasium would have. The arch section is apparently not of unusual strength or design. Connected to the three-level section is a two-level building. This building has no unusual features and appears to be institutional type. The entire installation is secured by a wall or fence, and both entrances appear to have sentry buildings.

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